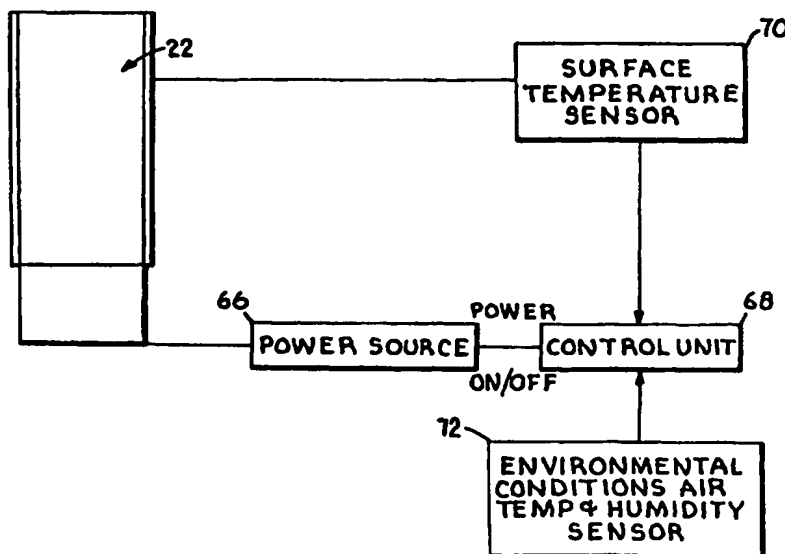




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(54) Title: HEATED BRIDGE DECK SYSTEM AND MATERIALS AND METHOD FOR CONSTRUCTING THE SAME



(57) Abstract

A heated bridge deck (20) uses electrodes (24, 26) embedded within conductive concrete and connected to a power source to remove snow and ice accumulation. A cement-based mixture containing optimal amounts of conductive materials is molded into pre-formed slabs (22) placed atop the paved surface of a bridge deck. Alternatively, the conductive concrete may be cast in place on top of an existing bridge deck. A control unit with temperature and moisture sensors may be coupled to the heated bridge deck.